## VALUE OF UTAH ORES FOR 1903

(Special to The Heraid.)

Heiena, Mont., June 25.—The annual report of B. H. Tatem, assayer in charge United States assay office at Heiena, Mont., prepared for the secretary of the treasury, and which has just been issued, says: The value of the gold, silver, copper and lead won from the mines of the state of Utah, during the calendar year 1903, was the largest in the history of the state. The quantity of each metal produced and the value thereof was as shown in the table below, the gold and silver being computed at the coinage rate for each and the copper and lead at the year's average price:

| Mont., June 25.—The annual report of B. H. Tatem, assayer in production being in the districts surrounding Bingham and Bingham and Bingham and Bingham and Bingham and Bingham cand the production being in the districts surrounding Bingham and Bingham and Bingham cand in the districts surrounding Bingham and Bingham and Bingham cand in the districts surrounding Bingham and Bingham and Bingham cand in the districts surrounding Bingham cand

Description-

Below is a similar comparison of the amounts and values of the production for the preceeding year:

\$27,882,153

The showing for the year made by the mines of this state has been most satisfactory. In nearly every camp of the state new properties are being opened up, while the improvement in metal prices, the enlargement of smelter facilities and the reduction in railroad traffic rates have encouraged and added immensely to the welfare of the industry.

In point of value of metal production, silver is the largest, followed in the order named by lead, gold and copper. Probably the most striking advancement in metal production has been in copper, of which, not many years ago, but little was thought in the state. The average price paid for this metal, as also for lead, was a substantial increase over the prices paid for the same metals during the preceeding year. The average price of copper for the calendar year 1902 was \$1.626 per cwt. and for 1903 \$13.235, an increase of \$1.61 per cwt. The average price paid for lead during the calendar year 1902 was \$4.063 and for 1903 \$4.237, an increase of 17 cents per cwt.

The yield of gold in 1902 and 1903, as distributed to the different counties of the state, and the changes therein, are noted in the following table:

		GOLD.			
Counties— Beaver Box Elder	Fine Oun 1,283,000 23,344,094 24,302,202 34,923,135 15,220,219 81,570,082 165,122	1992. ces. Value. \$ 26,521,96 	Fine Ounce 1,336.000 6,100.000 3,102.320		Increase or Decrease. \$ 1,095.62* 126,098.19* 64,136.64* 237,597.38* 42,162.32** 475,535.34* 188,217.28* 279,914.98** 1,754.57* 10,749.35* 149,755.90*
Total	192 156 988	92 079 995 41	997 999 944	64 665 666 56	9099 DED GT9

The changes in the quantity and value of the gold won from the different

Classed As— Fine Oun In quartz and dry ores 8.848.113 Cyanide mill bullion104,653.092 In lead ores	1902. ces. Value. \$ 182,906.73 2,163,371.41 440,661.65	Fine Ound 11,027,230 99,936,355 35,048,941	.903. ces. Value. \$ 227,953.07 2,065,867.81 724,525.91	Increase or Decrease, \$45,046.34° 97.503.60** 283,864.26*
In milling ores 42,638.523 In milling ores 14,700.153	881,416.49 303,879.13	80,190.617	1,657,687.16 229,058.43	776,270,67* 74,820,70**
Total \$192,156.888	\$3,972,235.41	237,283,844	\$4,905,092.38	\$982,856.97*

The larger gold output is traceable largely to the expansion of mining operations in the Bingham district, where a rapidly growing copper production includes a proportionate increase in the amounts of gold and silver extracted from the ores in association with copper. The Tintic and Park City districts, by the increased values of this metal contained in the lead ores from the mines of these sections, have also contributed to the advance in production of this metal and the large, steady output recovered by the cyanide process still continued.

The amounts of silver originating in the several counties during the year 1903, when compared with the corresponding figures for 1902, show the follow-

mg resuits:				
	1902.	1903		Increase or
Counties- Fine Ounces.	Coining Value.	Fine Ounces	. Coining Va	lue, Decrease.
Beaver 221,866.73	\$ 286,857.97	296,027.00 3		
Box Elder		7,280.00	9,412.53	9,412,53*
Iron		24,419,30	31,560,79	31,560.79*
Juab 2,978,394.00	2,850,852.85	4,565,950.19	5,903,450.75	2.052,597.90*
Piute 71,758.19	92,778.26	67,109,14	86,767,37	6,010.89**
Salt Lake 1,048,828.26	1,356,060.78	3,215,252,84	4.157.094.57	2,801,033,79*
Summit 7,952,515.12	10,282,039,75	8,810,850.12	11,391,806.20	1,109,766,45*
Tooele 294,551.61	380,834.40	732,279.97	946,786.22	565,951.82*
Utah	1,455.13	2,020,00	2,611.72	1.156.59*
Washington	a contraction	15,752.64	20,367,05	20,367.05*
Not classified 103,997.30	140,925.83	1,834,834.79	2,372,311.65	2,231,385.82*
	Annual Control of the	the second second second	material a molecular	-

Total ......12,678,036.66 \$16,391,804.97 19,571,786.99 \$25,304,910.83 \$8,913,105.86\* \*Increase. \*\* Decrease.

The yield of silver in 1903, when compared with that of 1902, by its origin in the several classes of ore, shows the following results:
1902. 1903. Classed as Fine Ounces. Coining Value, Fine Ounces. Coining Value, Increase,

734,626.02 \$ 949,819.50 976,692.04 \$ 1,262,793.73 \$ 312,974.23 lead ores. \$,700,218.22 11.248,766.99 11.258,328.91 14.556,223.24 3.307,456.25 copper ores. 2,409,592.02 3,115,432.11 6,271,815.56 8,109,014.06 4,992,831,95 milling ores. 761,842.12 985,007.99 984,221.34 1,272,528.60 - 287,520.61

Total .......12,678,036.66 \$16,391,804.97 19,571,766.99 \$25,304,916.83 \$8,913,105.86

In the silver production of Utsh the great mines of Park City continue to exhibit remarkable vitality and the increased output of the mines of this section of the state, together with the larger output from the Tintic and Bingham districts, are responsible for the increased showing made for this metal. Marked improvements in the facilities for the handling and shipping of ores from the mines to the smelters and in mine and smelter equipment have been pade this past year.

While mining has been growing apace in the state the smelter industry has been growing with it. Probably no other state is so well favored and the splendid service of Utah's smelting plants has been a boon to the mine owner and a great factor in the development and progress of the mining industry. The valley of Sait Lake is destined to become a great smelting center of the west. Here within a very small radius are located the smelting plants of the American Smelting & Refining company, the United States Smelter, the Bingham Consolidated Smelter and the Utah Consolidated. During the year two new smelting plants have been completed, the Majestic at Milford and the Yampa at Bingham

In the tables which follow are shown the output of precious metals for the principal producing counti-

25	131	rate	SIL	arre.	100	Lill
	BE	AVE	B	CO	UNT	CY.

Gold, fine ounces	1.336.000 296,027.00 732,085.	Value, \$ 27,617.58 382,761.98 96,891.45 254,461.25
Total		\$761,712.26

The year 1903 witnessed renewed mining activity in this county, the values of the metals produced being an increase of \$137,684.03 over the preceding year. Late in the year the new smelting plant of the Majestic company at Milford went into commission, an event over which the county generally exulted. The many mines and prospects being developed in this district should furnish this smelting plant with an ore supply amply sufficient to enable it to maintain a steady production. The character of many of the ores mined is of a low sulphice grade, easily concentrated, and the values increase with depth. For many years the Horn Silver Mining company has maintained a steady production from the rich silver ores contained in its properties.

This county situated in the central western portion of the state, is reached by the lines of the San Pedro and Denver & Rio Grande railways and embraces the camps of Eureka, Mammoth, Robinson, Silver City and Knightsville. A large increase in the amount and value of the metal production is shown for the year. The Centennial-Eureka is the largest producer and the tonnage of one from this property for the past year has exceeded all previous records. In October an underground fire of mysterious origin, which filled the workings of the Centennial-Eureka, Eureka Hill, Bullion-Beck and Gemini with gas and smoke, caused much annoyance and a cessation of work for several weeks. The fire was finally located in one of the old stopes of the Eureka Hill property and extinguished. Among the great producers of this county, besides the Centennial-Eureka, may be mentioned, the Uncle Sam Consolidated, Mammoth, Lower Mammoth, Ajax, Grand Central, Carlsa, Bullion-Beck, Eureka Hill, Yankee and Godiva. In this county are located the greatest number of producing properties contained in any one section of the state.

PIUTE COUNTY.

During the year this county contributed to the value of the mineral production of the state some \$547,000.00 as shown by the above table, the principel producer being the Annie Laurie Mining company, situated on Gold Mountain. The values from the ores of this company are recovered by the cyanide process, about 10 per cent of the same being in the silver contained. The company employs steadily upwards of 100 men. Considerable prospecting has been done in the districts around Kimberly and Marysvale and the coming year will undoubtedly give to the state some new producers from these sections.

the lower section of the Bingham carren.		
SUMMIT COUNTY.		
METALS. Gold, fine ounces Stiver, fine ounces, (coining rate) Copper, fine pounds Lead, fine pounds.	8,810,850.12	Value. \$ 502,847.13 11,391,806.20 502,546.32 3,366,463.65
Product of the second of the s		

The principal producer of this county during the year, the mining section of which is centered at Park City, was the Silver King, followed by the Dally-West, Daily-Judge, Naildriver, Oniario and Creole. This is primarily a silverlead camp and the output is shipped to the smelters of the Salt Lake valley. The district has prospered during the year partly owing to the increased prices paid for silver and lead and partly owing to the large amounts of outside money spent in prospecting, development and other improvements. Never in the history of the camp has so much legitimate prospecting been done, and never before has the search for ore bodies been so systematically and intelligently carried on. The results have been highly gratifying. This county shows an increase of value of metals mined of over \$1,500,000 for the year 1903, as compared with the preceding year, most of which was occasioned by the increased amounts and value of the silver-lead ores mined. The outlook for Park City for the coming year is particularly bright. \$15,763,663.30 for the coming year is particularly bright,

TOOELE COUNTY. Gold, fine ounces
SHver, fine ounces, (coining rate)
Copper, fine pounds

			YEAR 1	1903.			
And the last of th	SUMMARY BY COUNTIES. Beaver Box Elder Iron Juab Plute Salt Lake Summit Tooel:	Fine Ounces, 1,336,000 6,100,000 3,102,320 44,837,867 22,262,600 57,927,157 24,325,230 68,029,195	Value \$ 27,617.58 126,098.19 64,130.64 926,880.98 460,208.78 1,197,460.62 502,847.13 1,406,288.26	SII Fin. Ounce 296,027,00 7,289,00 24,410,30 4,565,950,19 67,109,14 3,215,252,84 8,810,850,12 732,279,97	s. Value. \$ 382,741,98 9,412,53 21,560,79 5,903,450,75 86,767,37 4,157,094,57 11,231,806,20 946,786,22	40	Total Value. 419,359,56 135,510,72 95,691.43 6,839,331.73 548,976.15 5,354,555.19 11,894,653.33 2,353,674.48
The second second	Washington	\$20,000		2,020.00 15,752.64	2,611,72 20,367.05		7,779.67 31,116.40

8,593,475 177,642.90 1,834,834.79 2,372,311,85 2,549,934,55 PRODUCTION OF GOLD AND SILVER IN UTAH (ORIGIN DETAILED) DURING THE CALENDAR YEAR 1903.

ORIG	IIN.	Ounces		Fine	LVER. e Coining es. Value.	Total Value,
ores	olde mill b	. 11,027.230	\$ -227,953.07	976,692,04	\$ 1,262,793.73	\$ 1,490,746.80
9 In lead In copy In milli	ores per ores ng ores	. 99,936.355 . 35,048.941 . 80,190,617	2,065,867.81 724,525.91 1,657,687.16 229.058.43	\$0,709,14 11,258,328,91 6,271,815,56 984,221.34	104,351.20 14.556,223.24 8,109,014.06 1,272,528.60	2.170,219.01 15,280,749.15 9,766,701.22 1,501,587.03
e mat		007 000 014	24 007 000 00	10 571 700 00	807 004 040 00	220 010 000 01

ORIGIN BY PERCENTAGES OF THE PRODUCTION OF GOLD AND SIL-VER IN UTAH DURING THE CALENDAR YEAR 1903.

Origin. In quartz and dry ores In cyanide mill bullion In lead ores In copper ores	42.10 14.77 33.79	Silver. 04,99 00,41 57.58 32.04
Total  EULLION OF UTAH PRODUCTION DEPOSITED STATES MINTS AND ASSAY OFFICES DURING	100.00 AT THE	

YEAR 1903. SILVER. INSTITUTION.

. 60,247.940 1,120,891.91 4,325.67 1,125,217.58 PRODUCTION OF COPPER AND LEAD IN UTAH DURING THE CALEN-DAR YEAR 1903.

 Beaver Juab Salt Lake Summit Tooel: Utah Washington Custom smelters in addition to the above, not possible	732,085 8,214,216 16,689,132 3,797,101 1,658,208 1,811,626	6,005,694 16,402,984 3,680,976 79,453,945 3,021,234 100,000
to distribute by counties	650,325	1,100,424
Total	33,552,692	109,765,257
DISPOSITION OF THE GOLD AND SILVER OF UTA ING THE CALENDAR YEAR		TON DUR-

SILVER. DISPOSITION. Deposited at the U. S mints and assay oferies by producers. 175,812.587 3,634,367.69 19,565,597.48 25,296,934.11 28,931,201.80

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\$22.50, for 10.00. \$30.00, for 16.40. \$40.00, for 24.75. \$50.00, for 29.00. \$70.00 for 33.25.

Dressing Table Worth \$60.00, special price \$25.00. Many others included --- Prices same in proportion.

5. Dinwoodey Furniture Company.

During the year this county contributed to the value of the mineral producer being the year this county contributed to the value of the mineral producer being the Annie Laurie Mining company, situated on Gold Mountain. The values from the ores of this company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embout 50 per cent of the same being in the sliver contained. The company embous 50 per cent of the same being in the sliver contained. The company embous 50 per cent of the same being in the sliver contained as follows, to-with 50 per cent of the captain stock of the Harshell Gold Mining company and the captain to the cort of the same sliver of the same sliver of the same sliv

Total .... 237,283,844 \$4,995,092,58 19,571,766,99 \$25,304,910,83 \$20,210,002,91 Solon Spiro
Jos. Sauer
Frank Schuyler
Miss L. M. Sherradan
J. A. Scott
J. A. Scott
J. A. Scott
Henry Simon
Jos. C. Sharp
Jes. C. Sharp
Jes. C. Sharp
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